Linked Open Data in the UK Public Sector

Bill Roberts, Swirrl

PiLOD

20 September 2015

Types of data

Reference

- Geography
- Companies
- Organisations
- Buildings
- Roads
- Public transport infrastructure
- …

Statistical/Operational

- Population
- Economy
- Health
- Education
- Crime
- Housing
- …

SWIRRL IT LIMITED
SC337356

rdf | json | xml | html | csv | yaml |

CompanyName	SWIRRL IT LIMITED	
CompanyNumber	SC337356	
RegAddress	**AddressLine1**	MACFARLANE GRAY HOUSE CASTLECRAIG BUSINESS PARK
	AddressLine2	SPRINGBANK ROAD
	PostTown	STIRLING
	County	STIRLINGSHIRE
	Postcode	FK7 7WT
CompanyCategory	Private Limited Company	
CompanyStatus	Active	
CountryOfOrigin	United Kingdom	
IncorporationDate	07/02/2008	
Accounts	**AccountRefDay**	05
	AccountRefMonth	04

Current Datasets

Ordnance Survey Linked Data

36,773,687 triples

Code-Point Open Linked Data

33,750,456 triples

50K Gazetteer Linked Data

2,368,655 triples

Boundary Line Linked Data

653,433 triples

M1 1EZ

Map powered by OS OpenSpace

Zoom to: Country   **County**   District   City Area   City   Street

© Crown copyright and database rights 2015 Ordnance Survey.

M1 1EZ is a Postcode Unit.

Objects related to "M1 1EZ"

Core facts about "M1 1EZ"

Type	Postcode Unit
Label	M1 1EZ

Search for statistical geographies: Enter a location…

Please type either:

- name of geography: *Barking and Dagenham 002*
- code: *E00000012*

publish_my_data_2@noreply.github.co

LINKED DATA RESOURCES

181 linked data resources of type http://data.surreycc.gov.uk/def/assets/Bridge

IN DATASET

Bridges

NAME
KINGS ROAD RAILWAY
WESTBROOK ROAD
GOVERNMENT ROAD RAILWAY
ANGEL ROAD NORTH RAILWAY
BYFLEET & NEW HAW STATION
CAMPHILL RAILWAY
MOOR LANE RAILWAY
RIVER LANE RAILWAY
MOLESEY ROAD RAILWAY
BOXHILL ROAD RAILWAY
HOOLEY LANE RAILWAY

Department For
Communities and
Local Government

OpenDataCommunities.org
Open Access to Local Data

This site is the UK Department for Communities and Local Government's official Linked Open Data website.

It provides a selection of statistics on a variety of themes including Local Government finance, housing and homelessness, wellbeing, deprivation, and the department's business plan as well as supporting geographical data.

Read our News, or visit the Apps Showcase.

This site hosts **194 Linked Data datasets** which you can browse and download in multiple formats, query using our SPARQL 1.1 endpoint, and access programmatically using our APIs, supported by 124 local vocabularies .

Latest data updates

SSD Date Labels
http://opendatacommunities.org/data/ssd-date-labels

National Planning Casework Unit - Casework Decisions
http://opendatacommunities.org/data/planning/npcu-case-work/decisions

Homelessness Acceptances England, District By Ethnicity
http://opendatacommunities.org/data/homelessness/homelessness-acceptances/ethnicity

Help to Buy Equity Loan Scheme, by district (Total Equity Loans & Equity Loans First Time Buyers)

District Council

Sedgemoor

Part of Somerset

Housing | **Finance** | **Deprivation** | **Wellbeing** | **Geography**

Housing

These graphs illustrate a selection of the data we hold on housing related statistics and show how the values for this local authority compare with others in England.

See also the full list of households, housing-market and homelessness datasets.

This is a small selection of the data held by DCLG. If there are other datasets that would be valuable to you, please let us know.

Number of Households

Estimated number of households in this authority in 2008. [Source]

48,000
households

National average: **66597**

Homelessness acceptances

The number of households accepted as homeless, per 1000 households, in Q3 2011. [Source]

0.42
households per 1000

National average: **0.49**

Households accommodated

Number of households in temporary accommodation, per 1000 households, in Q3 2011. [Source]

0.50
households per 1000

National average: **1.72**

Net additional dwellings

The absolute increase in housing stock 2010-11 [Source]

630
dwellings

National average: **380**

Additional Affordable Dwellings

Additions to the stock of affordable housing 2010-11 [Source]

320
dwellings

National average: **188**

Rank decile

most deprived

least deprived

Data from OpenDataCommunities, © Mapbox © OpenStreetMap **Improve this map**

Data from the Index of Multiple Deprivation datasets.

HAMPSHIRE HUB

Open Data

📁 FOLDER

Themes

FOLDER CONTENTS

FOLDERS

NAME
📂 Access to Services
📂 Crime
📂 Deprivation
📂 Employment
📂 Environment
📂 Geography
📂 Health
📂 Housing
📂 Income
📂 Joint Strategic Needs Assessment
📂 Planning Applications
📂 Population
📂 Skills and Qualifications

🏠 Profiles › Southampton ›

UNITARY AUTHORITY

Southampton

CONTAINED WITHIN
South East

NEIGHBOURS
New Forest, Eastleigh, Test Valley

© Mapbox © OpenStreetMap **Improve this map**

POPULATION AND SOCIETY

Population
by country of birth

	PEOPLE		NATIONAL AVERAGE
England	188,884	79.70%	83.50%
Northern Ireland	1,029	0.40%	0.40%
Scotland	2,999	1.30%	1.30%
Wales	2,293	1.00%	1.00%
Ireland	1,357	0.60%	0.70%
UK (not otherwise specified)	0	0.00%	0.00%
EU Member State (2001)	4,571	1.90%	1.70%
EU Accession State (2011)	11,370	4.80%	2.00%
Other	24,353	10.30%	9.40%
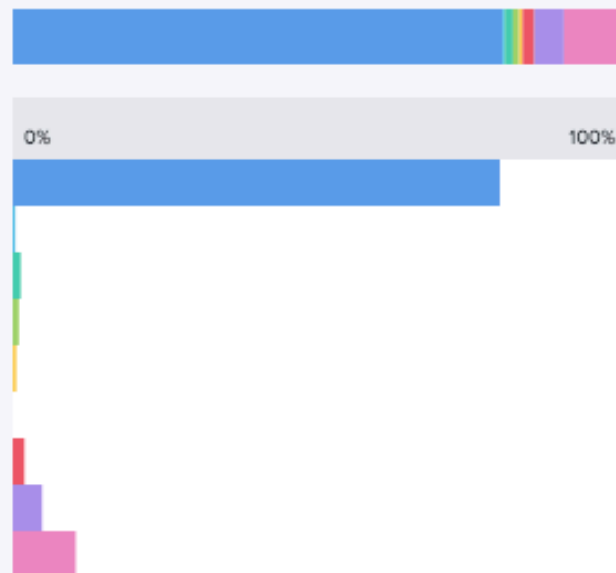
Source: Country of birth

Linked Data API

Search Results

Show Search Form

2013-11-57320

transaction id	CFE63CDD-DDB0-42F3-AACD-00CA35248E46
new build	☒
publish date	06/11/2013
transaction date	25/01/2002
price paid	73000
type	TransactionRecord
estate type	Freehold
has transaction	CFE63CDD-DDB0-42F3-AACD-00CA35248E46
property address	[2921c6b3cce6b16ac8e0c57dff12102784728ce5]

county	KENT
district	DOVER
locality	DOVER
paon	33
postcode	CT17 9LD
street	FARTHINGLOE ROAD

On This Page

- 2013-11-57320
- 2013-11-362814
- 2013-11-361432
- 2013-11-603801
- 2013-11-942795
- 2013-11-85804
- 2013-11-734696
- 2013-11-783386
- 2013-11-16852
- 2013-11-647540
- next ›

Sort by

- ∧ ∨ transaction id
- ∧ ∨ new build
- ∧ ∨ publish date
- ∧ ∨ transaction date
- ∧ ∨ price paid
- ∧ ∨ type
- ∧ ∨ estate type
- ∧ ∨ has transaction
- ∧ ∨ property address › county
- ∧ ∨ property address › district
- ∧ ∨ property address › locality
- ∧ ∨ property address › paon
- ∧ ∨ property address › postcode
- ∧ ∨ property address › street
- ∧ ∨ property address › town

Welcome to environment.data.gov.uk

Linked open data from the Department of Environment, Food and Rural Affairs
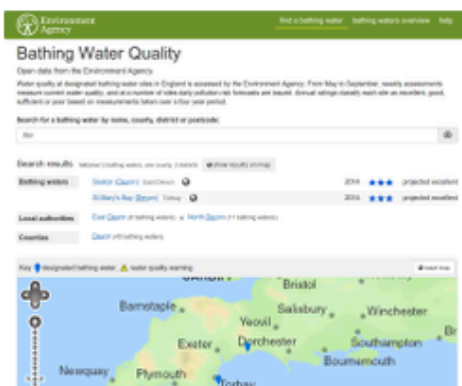
Under our Defra Open Data Strategy, Defra and its arms length bodies are working to increase the range and quality of open data that we provide. Here we are highlighting some of our 4∗ and 5∗ linked open data. Other Defra data can be found in the data.gov.uk catalog.

Department
for Environment
Food & Rural Affairs

Application

Bathing water quality

Check the water quality and warnings at

API

Bathing water quality

Detailed measurements of coastal and inland bathing water quality collected during the May–September bathing water season for England by the Environment Agency ↗.

The API also includes descriptions, locations and other reference data on bathing water sites.

Application

Bathing water widgets

Water quality at Durdle Door West

Pollution risk forecast
Pollution risk forecasts are not made for this site

Annual classification
2014: ★★★ projected excellent

Latest in-season sample
⊙ indicates acceptable water quality 24 June, 2015

Projected classifications are based on a revised testing regime. See more details …

Environment Agency Real Time flood-monitoring API

Introduction

The Environment Agency flood-monitoring API provides developers with access to real time information covering:

- flood warnings and flood alerts
- flood areas which to which warnings or alerts apply
- forecast of flood risks over the next three days
- measurements of water levels and flows
- information on the monitoring stations providing those measurements

These APIs are provided as open data under the Open Government Licence with no requirement for registration. If you make use of this data please acknowledge this with the following attribution statement:

> this uses Environment Agency flood and river level data from the real-time data API (Beta)

For questions on the APIs and for notification of changes or maintenance events see the forum UK Government Data Developers.

Availability and resilience

While they are intended to be stable and robust the open data APIs do not offer a guarantee of service level and should not be relied upon for safety critical applications. They do not replace the existing channels by which the Agency notifies members of the public and partner organizations of floods and flood risk.

legislation.gov.uk

THE OFFICIAL HOME OF REVISED ENACTED UK LEGISLATION 1267-PRESENT CHANGES OVER TIME

New Legislation

The A465 Trunk Road (Slip Roads at Neath Interchange, Neath Port Talbot)

Frequently Asked Que

What legislation is held on

Open Data
White Paper

Unleashing the Potential

"We regard it as essential that Open Data is as re-usable as possible".

"The Government intends to adopt the 5-star scheme as a measure of the usability of its open data"

"there is a growing realisation of the power of linked data for exposing, sharing and connecting pieces of data and information using URIs to realise efficiencies in the public sector"
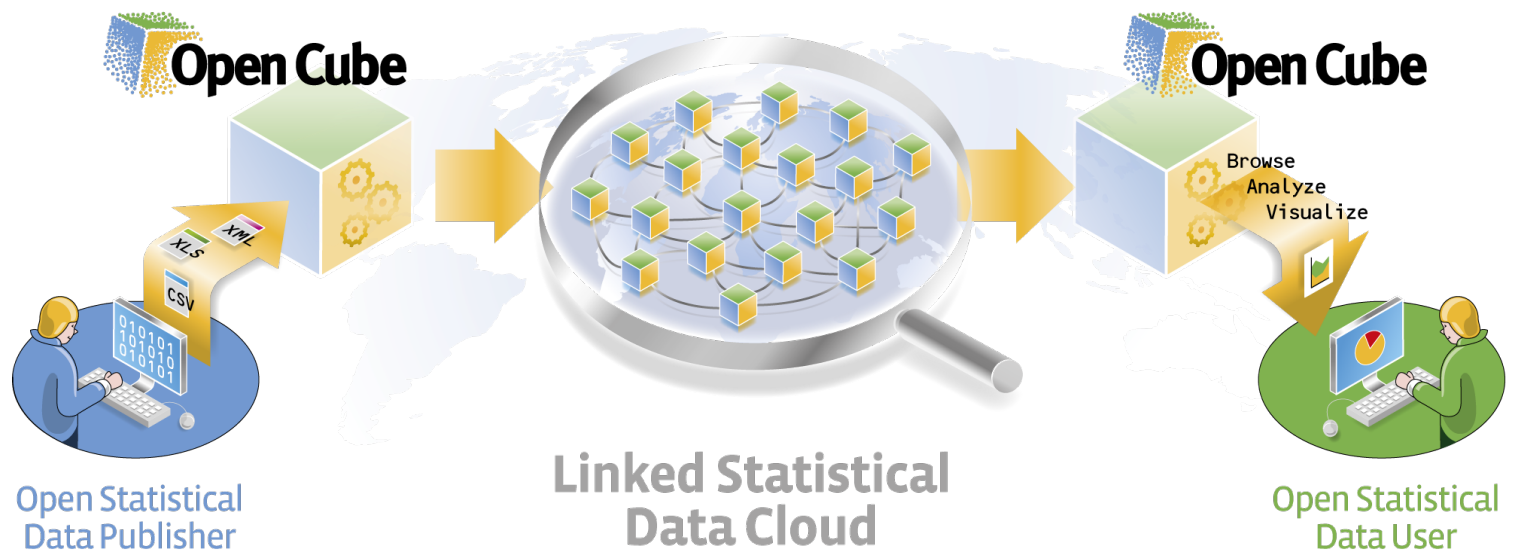
EUROPEAN COMMISSION

Open Cube

Open Cube

XML
XLS
CSV

Browse
Analyze
Visualize

Open Statistical
Data Publisher

Linked Statistical
Data Cloud

Open Statistical
Data User

Shakespeare Review, 2013

i) We should define 'National Core Reference Data' as the most important data held by each government department and other publicly funded bodies; this should be identified by an external body; it should (a) identify and describe the key entities at the heart of a department's responsibilities and (b) form the foundation for a range of other datasets, both inside and outside government, by providing points of reference and interconnection.

News

What Is National Information Infrastructure?

2013-07-28 by Jeni Tennison

You've probably heard people calling data "the new oil". The analogy is appropriate in some ways: like oil, data is something you can process to create many different kinds of value. But what this analogy misses is the fact that you have to choose to collect data in the first place. Data deposits don't just happen. They aren't things we discover and extract. They are things we create. And the data we choose to collect determines the value that we eventually get.

National Information Infrastructure:

the data that other datasets most often link to

Blog
Data in government

Organisations: Government Digital Service

Our plan for data

Paul Maltby, 25 September 2015 — Government Data Programme

Evidence

- For policy making
- For allocating investment
- For targeting services

- ...for better decisions

Shared services, shared data

- Economies of scale – cooperation between organisations
- 'joined up government'
- Supply chain automation
- Government as platform

Need shared data model, definitions, identifiers

Types of data

Reference

- Geography
- Companies
- Organisations
- Buildings
- Roads
- Public transport infrastructure
- …

Statistical/Operational

- Population
- Economy
- Health
- Education
- Crime
- Housing
- …

Challenges

- Open vs Personal

- Sustainability, stability, business cases

What should we do?

- Standards
- 'National Information Infrastructure'
- Help data owners better exploit their own data

Thanks!

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@billroberts

http://swirrl.com

http://data.hampshirehub.net

http://opendatacommunities.org

http://apps.opendatacommunities.org/showcase/deprivation

http://statisticsbeta.com

http://data.surreycc.gov.uk

http://gmdatastore.org.uk

http://data.companieshouse.gov.uk/doc/company/SC337356

http://landregistry.data.gov.uk/

http://environment.data.gov.uk

http://www.bsigroup.com/en-GB/smart-cities/Smart-Cities-Standards-and-Publication/PAS-182-smart-cities-data-concept-model/

http://www.w3.org/2013/share-psi/

http://theodi.org

http://opencube-project.eu/

http://blog.swirrl.com/articles/smartcity/

https://data.gov.uk/sites/default/files/Open_data_White_Paper.pdf

https://data.blog.gov.uk/2015/09/25/our-plan-for-data-2/